

In the Claims:

Please cancel claims 1 to 30 without prejudice or disclaimer to the subject matter therein.

Please add the following claims:

A2 --31. An antibody, or antibody fragment, that binds to an epitope of a Zins2 polypeptide, wherein the Zins2 polypeptide has an amino acid sequence consisting of SEQ ID NO:13.

32. The antibody of claim 31, wherein the antibody is a monoclonal antibody.

33. The antibody of claim 31, wherein the antibody is a polyclonal antibody.

34. The antibody of claim 31, wherein the antibody is a single-chain antibody.

35. The antibody of claim 31, wherein the antibody is a humanized antibody.

36. The antibody of claim 31, wherein the antibody is a chimeric antibody.

37. The antibody fragment of claim 31, wherein the antibody fragment is an F(ab')₂ fragment.

38. The antibody fragment of claim 31, wherein the antibody fragment is an Fab proteolytic fragment.

39. The antibody fragment of claim 31, wherein the antibody fragment is an Fv fragment.

40. The antibody, or antibody fragment, of claim 31, wherein the antibody, or antibody fragment, binds an epitope that resides within acid residues 20 to 54 of SEQ ID NO:13.

41. The antibody, or antibody fragment, of claim 31, wherein the antibody, or antibody fragment, binds an epitope that resides within acid residues 172 to 213 of SEQ ID NO:13.

A2

42. The antibody, or antibody fragment, of claim 31, wherein the antibody, or antibody fragment, further comprises a detectable label.

43. The antibody, or antibody fragment of claim 42, wherein the detectable label is selected from the group consisting of radionuclide, enzyme, fluorescent marker, chemiluminescent marker, and magnetic particle.--
